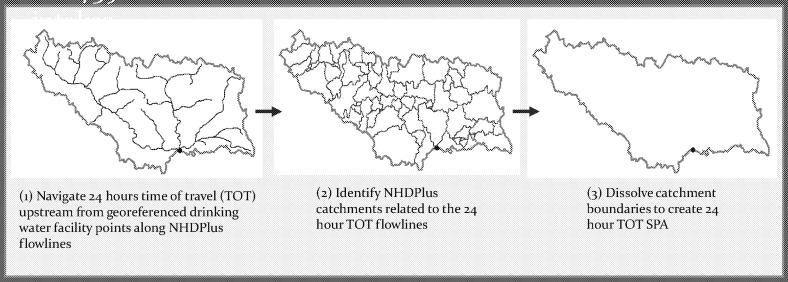
Office of Water GIS Analysis

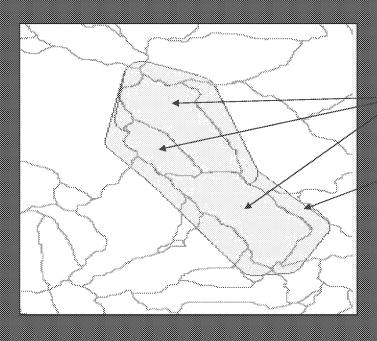
- Identify communities in California with
 - Populations >1,000
 - Drinking water intakes with immediate drainage areas mostly in Forest Service lands
 - Highest Wildfire Hazard Potential and associated post-fire sediment erosion potential.
- Use GIS to combine key geospatial data in a common application
 - · Post-wildfire sediment erosion potential
 - Wildfire Hazard Potential relative potential for wildfire that would be difficult to contain
 - Drinking water intakes and associated source water protection areas
 - Land Ownership e.g. Forest Service, BLM, tribal

Source Water Protection Areas (SPAs)

- Developed by EPA Office of Ground Water and Drinking Water
- NHDPlus used to identify catchments encountered by traveling 1 day upstream from surface drinking water intakes
 - Developed for > 8,330 intakes nationwide
 CA: 739 SPAs for stream and reservoir surface water



SPA Images Shown are Generalized



- Catchments in actual SPA
- Generalized SPA perimeter shown in blue

Wildfire-Induced Erosion Potential: Data Sources

 Project initiated by EPA Office of Wetlands, Oceans and Watersheds to develop sediment erosion potential estimates from wildfires in the Western US

 Work performed by Colorado State University with technical assistance from USDA Forest Service Labs in Moscow, ID and Missoula, MT

- GeoWEPP (Geographic Interface to the Water Erosion Prediction Project) Model adapted to provide hillslope-scale erosion estimates covering approximately 70% of the forested Western US
 - Hillslopes range from approximately 1 15 hectares
 - Over 736,000,000 hillslopes modeled
- Modeling results published in peer reviewed literature (Miller, ME; MacDonald, LH; Robichaud, PR; Elliot, WJ; International Journal of Wildland Fire 2011, 20, 982-999)

